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TEST REPORT



TESTING
CNAS L4577
November 13, 2014
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Report No.: SH62562-14

APPLICANT:
Vicsa Safety Comercial Limitada

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Test(s) requested : --	Product Category : --	Product Type : --
Sample description: --		
Style / Article no.: Guante Multiflex Forte Latex	Buyer: --	
Ref no.: --	Exported to: --	
	Date of receipt of application form: November 5, 2014 pm	
Order no.: 301009820660/301009820659/ 301000780467/301009820661	Date of receipt of sample: November 5, 2014 pm	
End use: --	Testing period: November 5, 2014 pm-- November 13, 2014	
Number of sample(s) SEVERAL PAIRS OF SAMPLES	Service required: REGULAR	

1. Conclusion:

Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)
Dexterity of glove	Level 5	(S01)	--
Sizing of glove	8, 9, 10, 11	(S01)(S05)(S06)(S07) (S08)(S09)(S10)(S11)	--
Abrasion resistance of glove	Level 2	(S02)	--
Blade cut resistance of glove	Level 1	(S02)	--
Tear resistance of glove	Level 2	(S02)	--
Puncture resistance of glove	Level 1	(S02)	--
Azo dyes	P P P	(S02)(S03)(S04)	--
pH value	P P P	(S02)(S03)(S04)	--
■ Dimethyl Fumarate Content	P	(S02)	--
Tin detection	P	(S02)	--
Cadmium detection	P	(S02)	--

■ This test is not covered by CNAS accreditation.

Note: P: Pass F: Fail

Comments:

For the submitted samples, the Dexterity got level 5; the expect size of gloves 8, 9, 10, 11 and the pH value tests passed the requirement according to EN420 standard.
The Abrasion resistance of glove got level 2; Blade cut resistance of glove got level 1; the Tear resistance of glove got level 2; the Puncture resistance of glove got level 1 according to EN388 standard.
All the other tests passed the requirements.

Approved by

Original Signed
Henry YAN
Lab Manager

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2. Label(s) on the sample(s):

Sample(s)	Size	Style / Article no.:	Sub-sample(s)	Component(s)	Colour
(01)	--	Guante Multiflex Forte Latex	(a)	Glove	Black/Grey
			(b)	Palm	Black
			(c)	Back	Black
			(d)	Cuff	Black
(02)	--	Guante Multiflex Forte Latex	(a)	Glove	Black/Grey
(03)	--	Guante Multiflex Forte Latex	(a)	Glove	Black/Grey
(04)	--	Guante Multiflex Forte Latex	(a)	Glove	Black/Grey
(05)	--	Guante Multiflex Forte Latex	(a)	Glove	Black/Grey
(06)	--	Guante Multiflex Forte Latex	(a)	Glove	Black/Grey
(07)	--	Guante Multiflex Forte Latex	(a)	Glove	Black/Grey
(08)	--	Guante Multiflex Forte Latex	(a)	Glove	Black/Grey

3. Sample(s) description assigned by laboratory:

Test item	Sample(s)	Combine / Separate sub-sample(s)
(S01)	(01)	(a)
(S02)	(01)	(b)
(S03)	(01)	(c)
(S04)	(01)	(d)
(S05)	(02)	(a)
(S06)	(03)	(a)
(S07)	(04)	(a)
(S08)	(05)	(a)
(S09)	(06)	(a)
(S10)	(07)	(a)
(S11)	(08)	(a)



4. Testing result:

4.1 EN 420

TEST METHOD		Test item(s)	Requirement	P/F
		(S01)		
1	Dexterity of glove* (EN 420:2003 §6.2+A1:2009) Highest value of four tests : Performance Level :	5.0 5	--- ---	---

TEST METHOD		Test item(s)		Requirement	P/F
2	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S01 S05	Total length (mm) 242 241	Glove Size 8	8	P

TEST METHOD		Test item(s)		Requirement	P/F
3	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S06 S07	Total length (mm) 255 257	Glove Size 9	9	P

Note: P: Pass F: Fail

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TEST METHOD		Test item(s)		Requirement	P/F
4	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S08 S09	Total length (mm) 263 264	Glove Size 10	10	P

TEST METHOD		Test item(s)		Requirement	P/F
5	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S10 S11	Total length (mm) 270 271	Glove Size 11	11	P

Note: P: Pass F: Fail

*Remark: Only two samples were measured for each sizing.

4.2 EN 388

TEST METHOD		Test item(s)		Requirement	P/F	
		(S02)				
1	Blade cut resistance of glove # (EN 388:2003 §6.2) Sequence	Index (I)		---	---	
			Test 1			Test 2
		1	2.3			1.9
		2	1.9			1.9
		3	1.8			2.0
		4	1.8			2.4
	5	1.6	2.0			
	Average (I):	1.9	2.0			
	Lowest average value (I) :	1.9		---		
	Performance Level :	1		---	---	
2	Tear resistance of glove # (EN 388:2003 §6.3) Lowest value of four tests (N):	36		---		
		2		---	---	
3	Puncture resistance of glove # (EN 388:2003 §6.4) Lowest value of four tests (N):	29		---		
		1		---	---	
4	Abrasion resistance of glove # (EN 388:2003 §6.1) Lowest value of four tests :	800		---		
		2		---	---	

Refer to the below page for details of the performance level of glove.

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Table of Performance Level for Glove

Test Item	Performance Level					
	0 ^{##}	1	2	3	4	5
Abrasion Resistance (EN 388:2003 §6.1) Number of cycles (minimum)	< 100	100	500	2000	8000	---
Blade Cut Resistance (EN 388:2003 §6.2) Index (I) (minimum)	< 1.2	1.2	2.5	5.0	10.0	20.0
Tear Resistance (EN 388:2003 §6.3) Force (N) (minimum)	< 10	10	25	50	75	---
Puncture Resistance (EN 388:2003 §6.4) Force (N) (minimum)	< 20	20	60	100	150	---
Dexterity (EN 420:2003 §6.2+A1:2009) Diameter of pin (in mm)	---	11.0	9.5	8.0	6.5	5.0

^{##} Performance level 0 means the glove falls below the minimum performance level for the given individual hazard.

4.3 Azo dyes

TEST METHOD	Test Items	Client Requirement	P/F
1 Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

TEST METHOD	Test Items	Client Requirement	P/F
2 Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

TEST METHOD	Test Items	Client Requirement	P/F
3 Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

*Test method according to EN 14362-1:2012 or EN ISO 17234-1:2010 or EN 14362-3:2012 or EN ISO 17234-2:2011. Removal of fat by n-hexane (in case of leather), treatment with citric buffer, reductive cleavage with sodium dithionite, extraction with ether, detection by GC/MS and/or HPLC/DAD. (Detection limit: 5 mg/kg)

List of aromatic amines

(Detection limit: 5mg/kg)

Benzidine	3,3'-Dimethoxybenzidine	O-Anisidine
4-Aminobiphenyle	3,3'-Dimethylbenzidine	4-Aminoazobenzene
4-Chloro-O-Toluidine	4,4'-Methylenedi-o-Toluidine	2,4 Xylidine
2-Naphthylamine	P-Cresidine	2,6 Xylidine
O-Aminoazotoluene	4,4'-Methylene-BIS-(2-Chloroaniline)	
5-Nitro-O-Toluidine	4,4'-Oxydianiline	
4-Chloroaniline	4,4'-Thiodianiline	
4-Methoxy-M-Phenylenediamine	O-Toluidine	
4,4'-Diaminodiphenylmethane	2,4,5-Trimethylaniline	
3,3'-Dichlorobenzidine	4-Methyl-M-Phenylenediamine	

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Interpretation of test results:

- (1) In the case of levels per amine component ≤ 30 mg/kg: Not detected. According to the analysis as carried out, azo colourants banned under the ordinance on commodities were not detected in the article submitted.
- (2) In the case of levels per amine component > 30 mg/kg: The analysis result suggests that the article submitted has been manufactured or treated by using azo colourants banned under the ordinance on commodities.
- (3) In case of a result between 25 and 35 mg/kg: We remark that due to the error range of the method, these measurement values represent a border line case.
- (4) For determination of 4-Aminoazobenzene, EN 14362-3:2012 or EN ISO 17234-2:2011 will be performed on the sample.

4.4 pH value

According to EN ISO 3071:2006

TEST METHOD	Test Items			Client's Requirement	P/F
	(S02)	(S03)	(S04)		
pH value Average value(nearest to 0.1)	9.0	7.3	7.4	>3.5 & <9.5	PPP

Note: P: Pass F: Fail

4.5 Dimethyl Fumarate Content:

TEST METHOD	Test Items		Requirement	P/F
	(S02)			
1 Dimethyl Fumarate Content (CAS: 624-49-7) (ISO/TS 16186: 2012) Detection Limit: =0.1mg/kg	<0.1		<0.1	P

Note: P: Pass F: Fail

Remark:

Laboratory Reporting Limit = 0.1 mg/kg

Mg/kg = milligram per kilogram

ND = Not detected

Method: Sample was extracted with organic solvent and analyzed by Gas Chromatograph Mass Spectrometer.

4.6 Tin Detection:

TEST METHOD	Test Items		Requirement	P/F
	(S02)			
Tin XRF Screening (With reference to ASTM F 2617-08) Metal Content in (mg/kg or ppm)	<350		<350	P

Note: P: Pass F: Fail

4.7 Cadmium Detection:

TEST METHOD	Test Items		Requirement	P/F
	(S02)			
Cadmium XRF Screening (With reference to ASTM F 2617-08) Metal Content in (mg/kg or ppm)	<100		<100	P

Note: P: Pass F: Fail

- End of report -

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